



GP/1655

Patent  
Attorney's Docket No. 020600-280

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of )  
Günter SCHMIDT et al. ) Group Art Unit: 1655  
Application No.: 09/341,641 ) Examiner: A. Chakrabarti  
Filed: September 9, 1999 )  
For: NUCLEIC ACID SEQUENCING )

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APR 11 2001  
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**AMENDMENT AND REPLY TRANSMITTAL LETTER**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Enclosed is an Amendment and Reply for the above-identified patent application.

- ☒ A Petition for Extension of Time is also enclosed.
- ☐ A Terminal Disclaimer and a check for ☐ \$55.00 (248) ☐ \$110.00 (148) to cover the requisite Government fee are also enclosed.
- ☐ Also enclosed is \_\_\_\_\_.
- ☐ Small entity status is hereby claimed.
- ☐ Applicant(s) request continued examination under 37 C.F.R. § 1.114 and enclose the ☐ \$355.00 (279) ☐ \$710.00 (179) fee due under 37 C.F.R. § 1.17(e).
- ☐ Applicant(s) previously submitted \_\_\_, on \_\_\_, for which continued examination is requested.
- ☐ Applicant(s) request suspension of action by the Office until at least \_\_\_, which does not exceed three months from the filing of this RCE, in accordance with 37 C.F.R. § 1.103(c). The required fee under 37 C.F.R. § 1.17(i) is enclosed.
- ☐ A Request for Entry and Consideration of Submission under 37 C.F.R. § 1.129(a) (146/246) is also enclosed.
- ☒ No additional claim fee is required.
- ☐ An additional claim fee is required, and is calculated as shown below:

AMENDED CLAIMS					
	NO. OF CLAIMS	HIGHEST NO. OF CLAIMS PREVIOUSLY PAID FOR	EXTRA CLAIMS	RATE	ADDT'L FEE
Total Claims	19	MINUS 20 =	0	× \$18.00 (103) =	0
Independent Claims	2	MINUS 3 =	0	× \$80.00 (102) =	0
If Amendment adds multiple dependent claims, add \$270.00 (104)					
Total Amendment Fee					0
If small entity status is claimed, subtract 50% of Total Amendment Fee					
<b>TOTAL ADDITIONAL FEE DUE FOR THIS AMENDMENT</b>					<b>0</b>

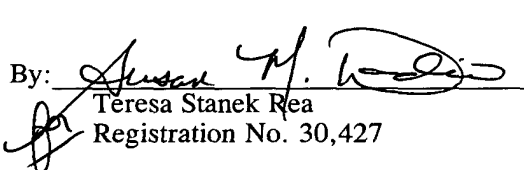
☐ A claim fee in the amount of \$\_\_\_\_\_ is enclosed.

☐ Charge \$\_\_\_\_\_ to Deposit Account No. 02-4800.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17, 1.20(d) and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By:   
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Date: April 9, 2001



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P.P.  
4/12/07

**AMENDMENT AND REPLY**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In complete response to the Official Action mailed on November 7, 2000, please  
amend the application as follows:

**IN THE CLAIMS:**

Please replace claims 21 and 33 as follows:

21. (Amended) A method for sequencing DNA, which comprises:

(a) obtaining a target DNA population comprising a heterogeneous population of  
single-stranded DNAs to be sequenced, each of which is immobilized in a unique amount in  
the same reaction zone and bears a primer to provide a double-stranded portion of the DNA  
for ligation thereto;

(b) contacting the DNA population with an array of hybridization probes, each  
probe comprising a label cleavably attached to a known base sequence of predetermined